

WHAT IS CLAIMED IS

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P1 1. A reflection type liquid crystal display device  
utilizing a phase transition type guest/host liquid crystal,  
said device comprising:

5 a plurality of pixel electrodes disposed over an  
active matrix substrate in the form of a matrix, each of the  
pixel electrodes connecting to a thin film transistor;

an interlayer insulating film interposed between the  
active matrix substrate and the plurality of pixel  
10 electrodes,

wherein said pixel electrodes are provided with a  
light reflective porous film on an upper surface thereof.

2. A liquid crystal display device of claim 1, wherein  
said light reflecting film is a multilayer of porous layers  
having a same configuration.  
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3. A liquid crystal display device of claim 1, wherein  
said light reflecting film is a multilayer of porous layers  
having different porous configurations.

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P1 4. A liquid crystal display device of claim 1 further  
comprising at least one driving thin film transistor formed  
over said substrate for driving said thin film transistors  
connected to said pixel electrodes.

5. A liquid crystal display device of claim 1, wherein said pixel electrodes and said light reflective film comprise aluminum.

6. A liquid crystal display device of claim 1, wherein said pixel electrodes and said light reflective film comprise scandium and aluminum.

7. A liquid crystal display device of claim 1, wherein the light reflecting films comprise an anode oxide of the pixel electrodes.

8. A reflection type liquid crystal display device utilizing a phase transition type guest/host liquid crystal, said device comprising:

at least one thin film transistor formed over an active matrix substrate;

a pixel electrode connecting to said thin film transistor;

an interlayer insulating film formed between said thin film transistor and said pixel electrode;

at least one light reflective film formed by anodic oxidation of said pixel electrode, wherein an upper surface of said light reflective film is porous;

a first orientation film formed on said light

reflective film;

a color filter comprising red, green and blue formed on an opposing substrate;

an opposing electrode formed on said color filter; and

a second orientation film formed on said opposing electrode,

wherein said phase transition type guest/host liquid crystal is injected between said first and second orientation film.

9. A method for manufacturing a liquid crystal display device comprising the step of:

forming a light reflecting film on an upper surface of a pixel electrode by anodic oxidation,

wherein the light reflecting film comprises at least one porous layer comprising aluminum as its main component.

10. A method for manufacturing a liquid crystal display panel of claim 8, wherein a configuration of the porous layer of the light reflecting film is controlled by changing at least one of a concentration of aqueous solution of oxalic acid, a voltage value, a current value, the time duration when the voltage is applied, and the time duration when the current is applied.

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